

1. Tyreke always leaves a tip of between 8% and 20% for the server when he pays for his dinner. This can be represented by the system of inequalities shown below, where y is the amount of tip and x is the cost of dinner.

$$y > 0.08x$$

$$y < 0.2x$$

Which of the following is a true statement?

- A. When the cost of dinner, x , is \$10, the amount of tip, y , must be between \$2 and \$8.
- B. When the cost of dinner, x , is \$15, the amount of tip, y , must be between \$1.20 and \$3.00.
- C. When the amount of tip, y , is \$3, the cost of dinner, x , must be between \$11 and \$23.
- D. When the amount of tip, y , is \$2.40, the cost of dinner, x , must be between \$3 and \$6.